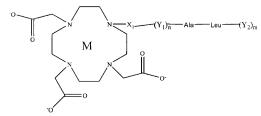
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-18. (Canceled)

- 19. (Currently Amended) A method comprising:
- a) administering an MRI agent having the formula:



wherein Y_1 and Y_2 are independently <u>chosen</u> amino acid moieties; n and m are <u>integers</u> each independently an <u>integer chosen</u> from 0 to 5; and X_1 is an <u>independent</u> a linker; and

salts thereof or a salt thereof, wherein said administering step results in an increase in the q value of said MRI agent or said salt; and

- b) producing a magnetic resonance image of a cell, tissue, or patient.
- 20. (Currently Amended) A method comprising:
- a) administering an activatable MRI agent having the formula:

N N
$$X_1$$
 MMP peptide (X_2) M O O

wherein

M is a paramagnetic metal ion selected from the group consisting of Gd(III), Fe(III), Mn(II), Y(III), Cr(III), Eu(III), and Dy(III);

X₁ is an aryl group or an alkyl group;

 X_2 is an aryl group, an alkyl group, a carbohydrate group, a nucleic acid group, or a lipid group;

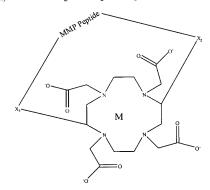
MMP is a matrix metalloproteinase (MMP) active peptide; and p is an integer from 0 to 1; and salts thereof or a salt thereof; and

- b) contacting said MRI agent under conditions wherein said MMP active peptide is cleaved by interacts interacting with [[a]] an MMP such that the T₁-of the said MRI agent is decreased the q value of said MRI agent is increased; and,
 - c) producing a magnetic resonance image of a cell, tissue, or patient.
- (Previously Presented) A method according to claim 19, wherein said M is Gd(III).
- 22. (Previously Presented) A method according to claim 20, wherein said M is Gd(III).
- 23. (Previously Presented) A method according to claim 19, wherein X_1 is selected from the group consisting of an aryl or alkyl group.

24 & 25. (Canceled)

26. (Withdrawn) A method according to claim 19, wherein X₁ is -(CH₂CO)-, Y₁ is -Pro-Met- when n = 2, and Y₂ is -Trp-Met-Arg when m = 1 (SEQ ID NO: 4).

- 27. (Withdrawn) A method according to claim 19, wherein X_1 is -(CH₂CO)-, Y_1 is -Met- when n=1, and Y_2 is -Trp-Met-Arg when m=3 (SEQ ID NO:2).
- 28. (Withdrawn) A method according to claim 19, wherein X_1 is -(CH₂CO)-, n = 0, and Y_2 is -Trp-Met-Arg when m = 3 (SEQ ID NO:3).
- (Previously Presented) A method according to claim 20, wherein said MMP is MMP 7.
- 30. (Withdrawn) A method according to claim 20, wherein X_1 is -(CH₂CO)-, said MMP peptide comprises Leu-Met-Trp-Arg, and p = 0 (SEQ ID NO:20).
 - 31. (Withdrawn currently amended) A method comprising:
 - a) administering an MRI agent having the formula:



wherein

 $\label{eq:main_model} M \ is \ a \ paramagnetic \ metal \ ion \ selected \ from \ the \ group \ consisting \ of \ Gd(III), Fe(III), Mn(II), Y(III), Cr(III), Eu(III), and \ Dy(III);$

X1 and X2 are each independently chosen linkers; and

MMP is a matrix metalloproteinase (MMP) active peptide; and salts-thereof; or a salt thereof;

contacting said MRI agent under conditions wherein said MMP active peptide interacts with a MMP such that the T₁ of the said MRI agent is decreased; and,

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- c) producing a magnetic resonance image of a cell, tissue, or patient.
- 32. (Withdrawn) A method according to claim 31, wherein said M is $\operatorname{Gd}(\operatorname{III})$.
- 33. (Withdrawn) A method according to claim 31, wherein X₁ and X₂ are independently selected from the group consisting of p-aminobenzyl or substituted p-aminobenzyl.
- (Withdrawn) A method according to claim 31, wherein said MMP peptide is Pro-Met-Ala-Leu-Trp-Met-Arg (SEQ ID NO: 4).
- 35. (Withdrawn) A method according to claim 31, wherein said MMP is MMP 7.
- 36. (Withdrawn) A method according to claim 31, wherein said MRI agent has the formula:

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